

### ABSTRACT

A hemispherical meander line loaded antenna is provided which can fit within a hemispherical radome so as to minimize real estate on an aircraft such as an unmanned airborne vehicle. In one embodiment, a double monopole is recreated in a hemispherical form, thus to make what was originally a rectilinear package into a hemispherical package without materially affecting VSWR or ultra-wideband and antenna pattern characteristics. The wideband double monopole hemispherical meander line loaded antenna is provided with a single feed, with the delay associated with the meander lines of the antenna adjusted to equalize the reactance of the antenna, thereby to enable proper impedance matching.